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Prostate Secretory Protein/PSP antibody [YPSP-1] (ab19070) datasheet

Product Name	Prostate Secretory Protein/PSP antibody [YPSP-1]
Product type	Primary antibodies
Description	Mouse monoclonal [YPSP-1] to Prostate Secretory Protein/PSP
Immunogen	Full length protein (purified) (Human).
Reacts with (species key)	Hu
Specificity	Does not react with a variety of human normal tissues.
Tested applications	ELISA, Western blot

Abreviews

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Application notes

([see key](#))

Recommended dilutions

ELISA: Use at an assay dependent dilution.

WB: Use at an assay dependent dilution. Predicted molecular weight: 14 kDa.

Not tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Positive control

([see definition](#))

Reactive with PSP or human prostate epithelial cells.

Cellular localization

Secreted. Sperm surface.

Research areas

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Relevance

An abundant constituent of the human seminal plasma is a 14-kD protein of prostate origin known as beta-microseminoprotein, prostatic secretory protein (PRPS), Prostate secretory protein (PSP), or PSP94. It is a product of a single gene transcribed in the prostate but not in the testis. Specific receptors for this protein are found on spermatozoa and in the prostate.

Database links

GeneCard	GC10P051219 (Human)	SwissProt	P08118 (Human)
Omim	157145 (Human)	Unigene	255462 (Human)

Raised in

Mouse

Clonality

Monoclonal

Clone number

YPSP-1

Isotype

IgG1

Purity	Protein G purified
Storage buffer	Preservative: None Constituents: 0.01M PBS, pH 7.2
Form	Liquid
Concentration	1.000 mg/ml
Storage instructions	Aliquot and store at -20°C. Avoid freeze / thaw cycles.

At Abcam, we have one centralized database to hold all of our product information, so that everything we know about this Prostate Secretory Protein/PSP antibody [YPSP-1] is on this datasheet. But please do [contact us](#) if you would like any reassurance!



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Prostate Secretory Protein/PSP antibody [YPSP-1] - related products:

Products for Western blot

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Compatible Secondaries for Prostate Secretory Protein/PSP antibody [YPSP-1]

ab2891	HRP polymer antibody
ab6563	Cy5 @ antibody
ab6726	Texas Red @ antibody
ab6728	HRP antibody
ab6729	Alkaline Phosphatase antibody
ab6785	FITC antibody
ab6788	Biotin antibody
ab7002	Phycoerythrin antibody
ab7018	Agarose antibody
ab27229	15nm Gold antibody
ab27230	10nm Gold antibody
ab27232	20nm Gold antibody
ab27233	5nm Gold antibody
ab27241	10nm Gold antibody
ab27242	20nm Gold antibody
ab27243	40nm Gold antibody
ab27244	5nm Gold antibody

Other Prostate Secretory Protein/PSP Antibodies

See all [Prostate Secretory Protein/PSP antibodies \(2\)...](#)

All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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rev: February 13, 2004

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ANTIBODIES

(anti-Human and others as indicated)

RDI Division of Fitzgerald Industries Intl offers a wide line of antibodies. Since no one antibody works best for all applications (neutralization, blotting, ELISA, etc), we offer many different types of antibodies to help solve this problem. Please inquire for other applications or types of antibodies not listed below.

Prostate Specific Antigen (PSA) (see below for total and free PSA abs) see also [human PSA antigens](#)

-PSA Matched Pairs see below

Elisa Kit for research use only at#RDI-PSA-KT \$375.00/kit, \$312.00/kit 4+ 96 well Elisa

Mouse anti-Prostate Specific Antigen (Cocktail) for WB & histo

cat# RDI-PSA85abm \$375.00/100ug

RDI-PSA85abm-1 \$500.00/200ug

Presentation: Protein G purified antibody in 10mM PBS with 0.2% BSA and 15mM NaN3. (Bulk available without BSA/Azide upon request) concentration 200ug/ml

Immunogen: purified human PSA

Isotype: mIgG1 (both)

Clones: ER-PR8 & PA05

Reactivity: human(others not tested)

Uses: -Western blot: 1ug/ml 2 hr rt

-histochemistry (frozen and paraffin sections) approx 1-2ug/ml 30-60 minutes RT

-for formalin fixed sections, requires pretreatment in boiling 10mM citrate bufer pH6.0 for 10-20 minutes followed by cooling at RT for 20 min.

Positive Contrl: prostate or prostate carcinoma

Localization: Cytoplasmic

Background: Recognizes a single protein of 33-34kDa, identified as PSA. This "cocktail" is composed of two clones those epitopes are not precisely mapped, but experimental data suggests that they are different. This cocktail is highly specific to PSA and stains prostatic secretory and ductal epithelium in both normal and neoplastic tissues. PSA is a chymotrypsin-like serine protease (kallikrein family) exclusively produced by the prostate epithelium, and abundant in seminal fluid. PSA can be detected in the sera of patients with prostatic carcinoma. It is predominantly complexed to a liver derived serine protease inhibitor, alpha-1- antichymotrypsin. A higher proportion of serum PSA is complexed to ACT in prostate cancer than in benign prostate hyperplasia.

Storage: 2-8 deg c

For Research Use Only

DATA SHEET :Mouse anti-Human Prostate Specific Antigen (PSA) (frozen & Paraffin Sections)

cat# RDI-PSAabm-A4 \$375.00/vial

Preparation: Lyophilized antibody purified by Protein G affinity chromatography diluted in 1% w/v BSA in PBS with 15mM sodium azide. Reconstitute with 1ml of sterile distilled water.

Clone: PSA 28/A4

Antigen: seminal fluid preparation

Isotype: mIgG1k

Specificity: Human prostate specific antigen (this antibody reacts with prostatic secretory and ductal epithelium in both normal and neoplastic tissue and can be useful in the identification of metastatic carcinomas of prostatic origin)

USE: Effective on paraffin wax embedded tissue and on frozen sections.

Protocol: Immunohistochemistry: Typical working dilution 1:50 - 1:100. 60 Minutes incubation at 25°C. Standard ABC technique.

Positive controls: normal prostate gland or known prostate carcinoma

Staining pattern: cytoplasmic

Storage and stability: Store unopened lyophilized antibody at 4°C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 4°C. For long term storage, aliquot in non frost free freezer, Avoid repeated freeze thaw cycles. Prepare fresh working dilutions daily. Strictly for in vitro research use only-Not for use in or on humans or animals-not for use in diagnostics

Monoclonal mouse anti-prostate specific antigen (PSA)

Catalogue # RDI-TRK4P33-xxx xxx=clone#



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PATE (Prostate and testis exp

☐ Antigen ☒ Keywords

search

Reactivity

Species with which the antibody reacts

Any

Host Species

Host in which the antibody was generated

Any

Applications

Specific antibody applications

Any

Conjugate

Enzyme or dye to which the antibody is conjugated. [More](#)

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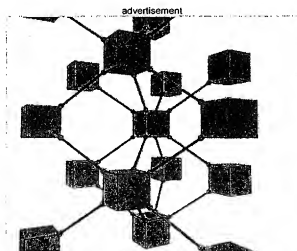
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Clone: 2H9, 5A6, 8A6, PS1, PS2 New clones - PS6, 5G6

These clones have been derived from hybridization of SP2/0 myeloma cells with spleen cells of a Balb/c mice immunized with human PSA antigen purified from seminal plasma.

Reactivity: Specificity of the clone is described in the table (see below)

Application: Detection of PSA antigen.

Recommended pairs for detection of total PSA : 5A6-2H9, PS2 - PS6, 5G6 - 5A6.

Best pair : 5G6 - 5A6

Recommended pairs for detection of free PSA : 5A6-8A6, 2H9-8A6, PS2-PS1, PS1-PS2, 8A6 - 5A6

Best pair : 8A6 - 5A6

Purification: Purified by chromatography on protein A Sepharose. Purity is tested by electrophoresis.

Presentation: Each vial contains antibodies in PBS, pH 7,4, containing 0,1% of sodium azide as preservative. Store at +4C.

Material safety note: This product is sold as an antibody preparation for research purpose only. Standard Laboratory Practices should be followed when handling this material. Contains sodium azide (0,1%) as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.

Mab	Isotype	Specificity in ELISA	Cross-reactivity with human kallikrein 2
5G6	IgG1	Total PSA, epitope 4	0.00
PS6	IgG1	Total PSA, epitope 4	0.00
2H9	IgG2a	equimolar total PSA, epitope 3	50%
PS2	IgG1	equimolar total PSA, epitope 3	100%
5A6	IgG2a	equimolar total PSA epitope 6	0.00
8A6	IgG2a	free PSA epitope 1	0.00
PS1	IgG1	free PSA, epitope 1	0.00

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Mouse anti-Human PSA MONOCLONAL

cat# RDI-PSAabm-280 \$375.00/1mg

Clone# 280

Lot# see batch sheet

Use: Coating antibody for solid phase

Class: mouse IgG

Antigen: human seminal fluid

Presentation: Chromatographically purified immunoglobulin fraction in 0.05M PBS, pH 7.4 containing 0.1% NaN₃.

Volume: see batch sheet

Protein conc: see batch sheet

Affinity: 8 X 10⁹

Storage: Store at 4-8 DEG C Upon Receipt. Avoid Frequent freeze thaw cycles.

For IN VITRO RESEARCH OR FURTHER MANUFACTURING USE ONLY.

Price: Price: \$375.00/mg 1-9mg \$312.00/mg 10mg + Bulk on request

Mouse anti-Human PSA MONOCLONAL (Total-detecting ab)

cat: RDI-PSAabm-281 Price: Price: Price: \$375.00/mg 1-9mg \$344.00/mg 10mg +

Bulk on request

Clone# 281

Lot# see batch sheet

Use: Detecting antibody (enzyme or 125I labeled)

Class: mouse IgG

Antigen: human seminal fluid

Presentation: Chromatographically purified immunoglobulin fraction in 0.05M PBS, pH 7.4 containing 0.1% NaN₃.

Volume: see batch sheet

Protein conc: see batch sheet

Affinity: 6 X 10⁹ E09

Storage: Store at 4 -8 DEG C Upon Receipt.

also: directly conjugated **anti-PSA:HRP** monoclonal clone 281

cat#RDI-PSAabm-HRP \$625.00/milligram

For IN VITRO RESEARCH OR FURTHER MANUFACTURING USE ONLY.

Mouse anti-Human FREE PSA MONOCLONAL

cat: RDI-PSAFabm-65 Price: \$500.00/mg 1-5mg \$438.00/mg 6-20mg

Clone# PSA-F65

Lot# see batch sheet

Use: Coating antibody (pair with clone 66)

-for use in EIA or IRMA assays

Class: mouse IgG1

Antigen: purified human Free PSA

Presentation: Chromatographically purified immunoglobulin fraction in PBS, pH 7.5 containing 0.1% NaN3.

Volume: see batch sheet

Protein conc: see batch sheet

Affinity: approx 2×10^{10} E10

Specificity: Free PSA 100% less than 0.1% with AFP, CEA, Ca 19-9, CA125, PAP, albumin, human IgG)

Storage: Store at 4 -8 DEG C Upon Receipt.

For IN VITRO RESEARCH OR FURTHER MANUFACTURING USE ONLY.

Mouse anti-Human PSA MONOCLONAL (Detecting clone in FREE PSA assay)

cat: RDI-PSAabm-66 Price: \$500.00/mg 1-5mg \$438.00/mg 6-20mg

Clone# PSA-66

Lot# see batch sheet

Use: Detecting antibody (pair with free PSA clone 65)

-for use in EIA or IRMA assays

Class: mouse IgG1

Antigen: purified human PSA

Presentation: Chromatographically purified immunoglobulin fraction in PBS, pH 7.5 containing 0.1% NaN₃.

Volume: see batch sheet

Protein conc: see batch sheet

Affinity: approx 7 X 10⁹

Specificity: PSA 100% less than 0.1% with AFP, CEA, CA 19-9, CA125, PAP, albumin, human IgG)

Storage: Store at 4 -8 DEG C Upon Receipt.

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Prostate Specific Antigen antibody [PSA1] (ab403) datasheet

Product Name	Prostate Specific Antigen antibody [PSA1]
Product type	Primary antibodies
Description	Mouse monoclonal [PSA1] to Prostate Specific Antigen
Immunogen	Full length native protein (purified) (Human).
Reacts with (species key)	Hu
Specificity	Human prostate-specific antigen - 100% PSA/alpha-1-ACT-complex - 59% Kallikrein - <0.04% PAP - <0.04%

Cross-reactivity values have been calculated on weight/weight basis using 125-I-labelled human human prostate-specific antigen in assay. They can vary because of the presence of antigen or related impurities in protein preparations used for cross reactivity assays.

Affinity constant: 1×10^{11} l/mol human prostate-specific antigen.

Tested applications

Radioimmunoassay, ELISA

Abreviews

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Application notes

([see key](#))

Recommended dilutions

ELISA: Use at an assay dependant concentration.

RIA: Use at an assay dependant concentration.

Nanowires array: 1/50 - 1/500.

Not tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Cellular localization

Cytoplasmic and Secreted

Research areas

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Relevance

Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its protein product is a protease

present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. Serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of this gene generates two transcript variants encoding different isoforms. Additional transcript variants have been described, but it is unclear if these transcripts are normally expressed or if they are specific to benign or malignant tumors.

Database links	Entrez Gene	354 (Human)	SwissProt	P07288 (Human)
	GeneCard	GC19P056049 (Human)	UniGene	171995 (Human)
	Omim	176820 (Human)		
Raised in	Mouse			
Clonality	Monoclonal			
Clone number	PSA1			
Isotype	IgG1			
Purity	Protein A purified			
Storage buffer	Preservative: 0.1% Sodium Azide			
	Constituents: Sodium Chloride, Citrate / phosphate. pH 6.0			
	Material safety datasheet (MSDS) for this product: Sodium Azide MSDS			
Form	Liquid			
Concentration	5.300 mg/ml			
Storage instructions	Store at +4°C.			

At Abcam, we have one centralized database to hold all of our product information, so that everything we know about this Prostate Specific Antigen antibody [PSA1] is on this datasheet. But please do [contact us](#) if you would like any reassurance!



References for Prostate Specific Antigen antibody [PSA1] (ab403)



This product has been used in:

Zheng G *et al.* Multiplexed electrical detection of cancer markers with nanowire sensor arrays. *Nat Biotechnol* 23:1294-301 (2005). [PubMed: 16170313](#)

If you publish research using ab403 please [let us know](#) so that we can cite the reference on this datasheet.

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